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AMENDMENTS TO THE CLAIMS

1-18. (Canceled)

19. (Currently Amended) The system of claim-18 23, wherein the first card includes

an ASIC, which is configured to perform parallel-to-serial conversion on the data in the

SONET/SDH format, thereby making the data suitable for transmission to the cross-

connect card via the backplane.

20. (Currently amended) The system of claim—18 23, wherein the second card

includes an ASIC, which is configured to perform serial-to-parallel conversion on the

data in the SONET/SDH format, the data being received from the cross-connect card via

the backplane.

21-22. (Canceled)

23. (Currently Amended) The A system comprising:

a first card coupled to a first network compatible with a first data format, the first

card being configured to convert data from the first data format to a synchronous optical

network (SONET/SDH) format, and vice versa;

a second card coupled to a second network compatible with a second data format,

the second card being configured to convert data in the second data format to the

SONET/SDH format, and vice versa;

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a cross-connect card configured to perform switching functions on data in the

SONET/SDH format; and

a backplane communicatively connecting the first card, second card, and cross-

connect card, the backplane being configured to use a common signaling scheme to carry

data in the SONET/SDH format as one or more serial data signals between the first card,

the cross-connect card, and the second card,

wherein the cross-connect card includes a first and second application specific

integrated circuit (ASIC), each of the first and second ASICs being configured to perform

parallel-to-serial conversion and serial-to-parallel conversion on data in the SONET/SDH

format,

the first ASIC is configured to perform serial-to-parallel conversion on the data in

the SONET/SDH format, the data being received from the first card via the backplane,

the second ASIC is configured to perform parallel-to-serial conversion on the data

in the SONET/SDH format, thereby making the data suitable for transmission to the

second card via the backplane, and

the cross-connect card further comprises a third ASIC configured to perform the

switching functions on the data converted by the first ASIC, the switched data being sent

to the second ASIC for conversion.

24-26. (Canceled)

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27. (Currently Amended) The system of claim-17_23, wherein the common signaling

scheme utilizes differential pair signaling at a predetermined frequency.

28. (Currently Amended) The system of claim-17_23, wherein the backplane includes a

plurality of card slots, the first and second cards being plugged into respective ones of the

plurality of card slots.

29. (Previously Presented) The system of claim 28, wherein the first and second cards are

each interchangeable with a third card, the third card being coupled to a third network,

thereby allowing the cross-connect card to perform switching functions with respect to

the third network.

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